Dating by the Rubidium-Strontium Method Using Spectroscopic Analysis with a Volta Luminescence Light Source, by Heinz Kocher, 8 p.

GERMAN, per, Zeit Angew Physik, 1958, Vol. X, No 3, pp 150-155.

ATB-971.320

Sci Mar 60 Yol 2, No 11

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On the Mechanism of Wire Explosions, by Evals, Funfer, Martin Keilhacker, Gunther Lehner, 15 p.

GERMAN, per, Zeit Angew Phys, 1958, Vol X, No 4, pp 157-162.

SIA 59-20472

Sc1 War 60 Vol 2, No 12

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A New Method of Plasma Generation for Ion Sources, by A. Ziegler, 6 pp.

CHERMAN, per, Z Angew Phys, Vol X, 1958, pp 185-186.

AEC UCEL-Trans-589(L)

SEA 60 1777

801 - Phys 19 Jan 61

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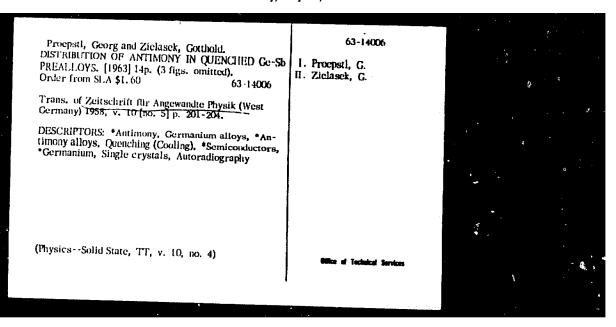
Spectroscopy in the Far Infra-Red Through Interference Modulation, by L. Genzel, R. Weber, 12 pp. GERMAN, per, Z Fuer Angewandte Physik, Vol X, Ro 4, 1958, pp 195

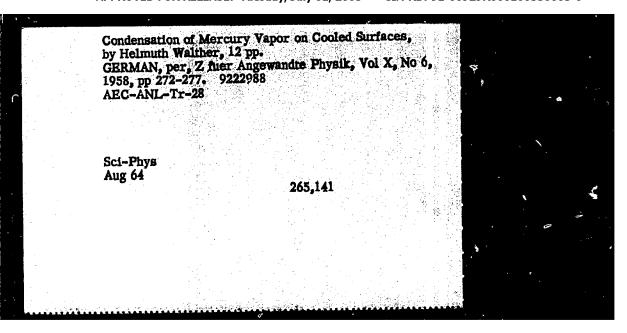
Amer Meteorol Soc AF Cambridge Res Center

Sci - Phys

Aug 60

121,349





Results of Investigations of the Recognizability of Small Details on a Television Screen, by F. Below, W. Kroebel, H. Springer, 28 pp.

GERMAN, por, Z fur Angewandte Physik, Vol X, No 6, 1958, pp 277-285.

SIA 60-14075

Sci

OTS, Vol III, No 7

Nov 60

133,067



On Resolving Power of Scintillation Multipliers and Effect of Various Parameters on it, by P. Gorlich, A. Krohs, et. al, 13 pp.

GERMAN, per, Zeit Angew. Phys, Vol X, 1958, pp 303-309.

AEC Tr 3532

Sci - Phys Mar 59

82,893



The vicual Properties of the Ruler Rye in Relation the to the Problem of Judging the Quality of Projected and Television Images, by W. Kroebel, F. Arp, H. Baurmeister, 29 pp.

CERIAN, per, Z fur Angevendte Faysik, Vol X, No 7, 1958, pp 309-317.

SLA 60-14324

Sci Jem 62 Vol III, No K 10 181,287

statistical Observations on Measurements of Visual Properties of the Human Rye, by Ferdinand Arp, 11 pp.

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SIA 60-14950

Boi Feb 62 Vol III, No 11 184, 104

The Perception of Image Details of Television Images, by W. Kroebel,

GERMAN, per, Zeitschrift fuer Angewandte Physik, (4), July 1958, pp 320-327.

ERDL, Ft Belvoir T-1131

Sci Jun 61

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The High Properties of Photographic Costings Subjected to Electron Radiation, by H. Prieser, W. Whein, 29 MP:

CARMAN, per, 2. Angew Phys, Vol Y, 1958, pp 337-346.

AEC-Tr-3686 < LA: 59-1047/

801 - Myz

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92,070

Some Properties of Thin Barjum-Strontium Titunate Single Crastal Films Evaporated in an Electric Field, by Alexander Moll, 9 p.

GERMAN,, per, Zeit für Angew Physik, 1958, Vol X, No 9, pp 410-416.

BLA (59-17741

Sci Feb 60 Vol 2, No 10 109,122

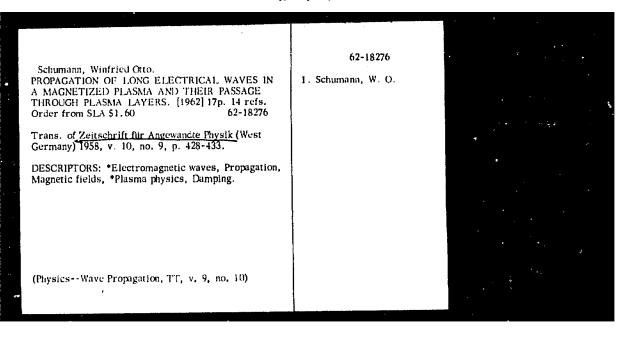
Measurement of Volta Potentials with the Air of the Rotating Armature Method, by W. Sch .. fs, 8 pp.

GERMAN, per, Z fuer Angewandte Physi' No 9, 1958, pp 424-428. /ol X, \$

MIB 951.280

Sci-Electric Jun 59 OTS I, 10

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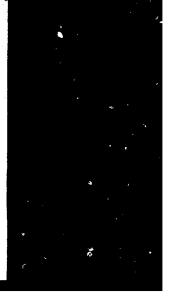
Recent Developments in Scintillation Counters, by W. Hanle, H. Schneider,

GERMAN, per, Zeit für Angest Physik, Vol X, No 9, pp 228-248. 1958

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C.S.I.R.O. Chief Librarian

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Energy and Power Problems in Minear Accelerators, by Max Wats, 11 pp. GERMAN, per, Zeitschrift für Angemendte Physik, Vol 10, 1958, pp 258-272. P911147067 AEC ANI Tr-430

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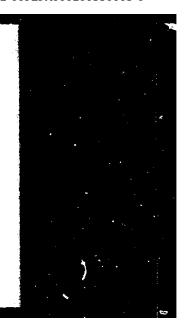
Sci - Nuclear Science May 67



Phase Coorelation Between Ultrasonic Pressure and Sonoluminescence, by W. U. Wagner. GERMAN, per, Zeit Angew Phys, Vol 10, 1958, pp 445-452.
AEC-NP-tr-1808

Sci-Phys Aug 69

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APPROVED FOR RELEASE: Tuesday, July 01, 2003

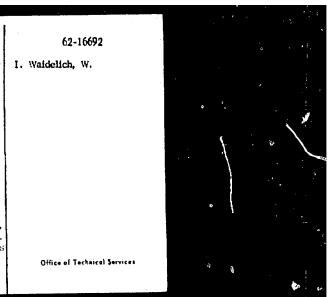
CIA-RDP91-00929R000100330005-0

Waidelich, Wilhelm.
RELATIONSHIP BETWEEN THE STRUCTUKE OF
SILVER BROMIDE GRAINS AND THE SENSITIVITY
OF PHOTOGRAPHIC EMULSIONS. [1962] 21p. (refs. omitted). 62-16692 Order from SLA \$2.60

Trans. of Zeitschrift für Angewandte Ph-sik (West Germany) 1958, v. 10, [no. 11] p. 525-531.

DESCRIPTORS: "Photographic comisions, Photographic paper, Photographic film, "Silver compounds, "Bromides, "Crystal structure, X-ray spectroscopy, Sensitivity

By precision measurements of the half-value width of Debye-Scherrer lines of photographic emulsion grains, the sizes of the coherent grid ranges were determined. There is a relation between the size of coherent ranges and sensitivity. The higher the sensitivity is, the (Materials--Photographic, TT, v. 8, no. 7) (o



Determination of the Neutron Emission of a Neutron Source, by P. Wunderer.

GERMAN, per, Zeit Angew Phys, Vol 10, 1958, pp 537-546.

AEC-ANL-Trans-529

Sci-Phys
Jan 68

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Determination of Neutron Emission of a Neutron Source, by P. Wunderer, 22 pp.

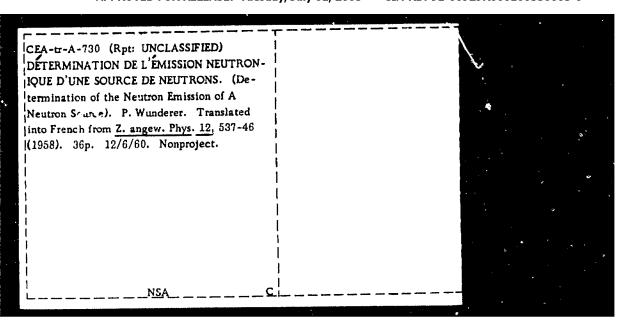
GERMAN, per, Z <u>fuer Angewandte Physi</u>k, Vol X, No 12, 1958, pp 537-546. 9093661

A.C.S.I.I. 10 1236

Sci - Nuc Phys

Apr 62

191,528



Interference of X-Rays on Evaporated Aluminum Layers, by W. Hink, W. Petzold, 17 pp.

Vol X, No 12, 1958, pp 553-562.

ATS-820416

Sci Vol IV, No 7 Apr 62

193, 838



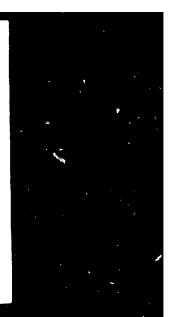
Contact Resistance and Contact Burface, by K. Millian, W. Rieder.

GERMAN, per, Z. fuer Angewendte Physik, Vol VIII, No 1, 1959, pp 28-34.

CSIRO

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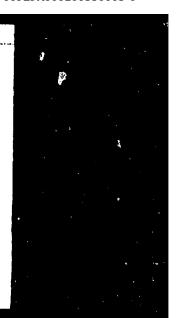
Investigations on Replacing the Subjective Picture Quality Determination by a Physical Criterium, by Werner Kroebel, George Moll.

ORIMAN, per, Zeitschrift Fuer Angemendte Physik, Vol XI, No 1, Jan 1959, pp 27-35. 9661812.

AFIC MCL 396/1-2

Sci - Phys Jun 61

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Investigation of the High Frequency Spectrum of Periodic Discharges, by W. Heintz.

QERMAN, per, Z Angew Physik, Vol XI, No 2, 1959, pp 51-56.

M900 TR-848

Sci - Electronics an 61

136,418

Developments in the Electron-Accumulating Mass Spectrometry of Polyatomic Molecules, by Manfred von Ardenne, 30 pp.

GERMAN, per, Zeit für Angew Physik, Vol XI, No 4, 1959, pp 121-131. 9661912

OS 11 6/47 70 3

MPIC MCL-818/1

Sci - Electron

Jul 61

159, 496

Observations on Wire Explosions, by Werner Schaafs, 5 p.

GERMAN, por, Zeit Angew Payeik, 1959, Vol XI, No 2, pp 63-65.

81A 59-20471

801 Mar 60 Vol 2, No 12

109,270



The Application of the Curie-Point of Ferrites to Temperature Control, by Harald Straubel, 9 p.

OMRMAN, per, Zeit für Angewandte Physik, 1959, Vol XI, No 5, pp 172-176.

SLA 59-17735

Sci Jan 60 Vol 2, No 8

105,555

Electic Properties of Artificial Graphite, by R. Arnold.

GERMAN, per, Z Angewandte Physik, Vol XI, No 5, 1959, pp 179-183.

RAE 880

Sci - Chem

Jul. 60

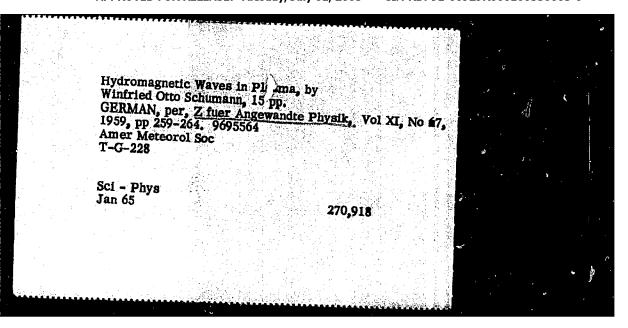
120,004

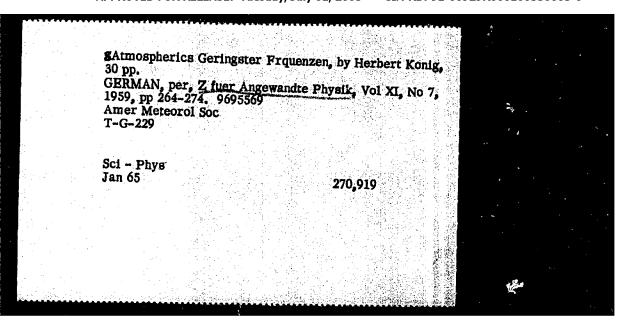
The Physical Limits of the Elimination of Scattered X-Rays with the Bucky Grid, by Earl H. Reiss, 11 p.

GERMAN, per, Zeit Angew Physik, 1959, Vol XI, No 5, pp 184-188.

SLA 59-20015

Sci Feb 60 Vol 2, No 10 108,817





Phase Correlation Between Alternating Sound Wave Pressure and Sonoluminescence, by P. Gunther, E. Heim.

GERMAN, per, Zeitschrift für augemandte Physik.

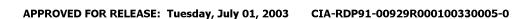
Vol 11, Ho 7, 1959, pp 274-277.

P911340367

AEC NP-TR-1568

Sei-Nucl Sei Nov 67

343,645



Temperature Dependence of Conductivity of Amorphous Germanium Vapor-Deposited Layers, by Von Hans Richter and Richard Schneider, 19 pp.

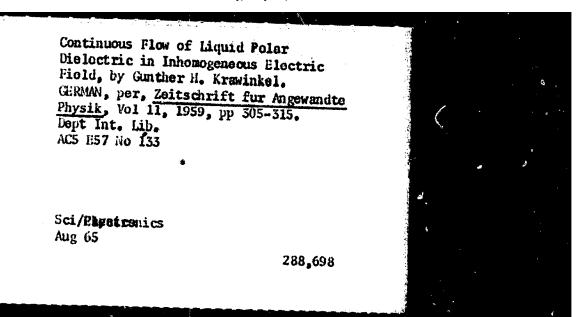
CERMAN, per, Zeitschrift für Angewandte Physik, Vol XI, No 7, 1959, pp 277-283.

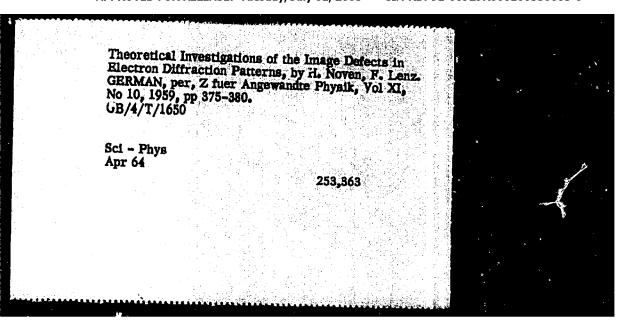
ACSI H-8888 ID 2164462

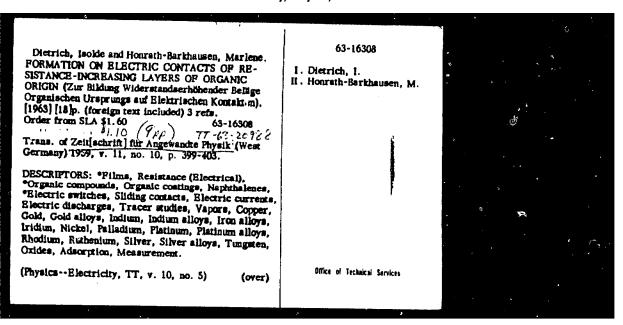
Sci - Physics

Jun 61.

SLA - 61-10319







Strosche, Hermann.
SIMPLE LOPING EQUIPMENT FOR VACUUM VAPOR DEPOSITION. [1961] 7p. 8 refs.
Order from SLA \$1.10 62-10330

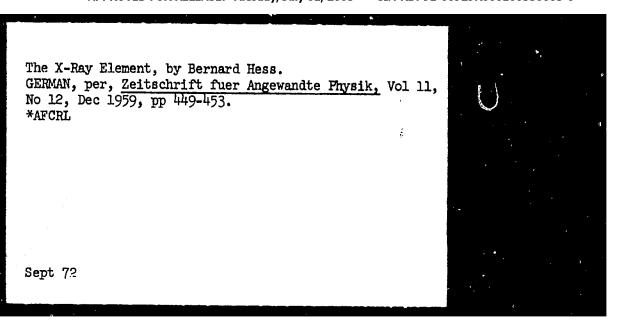
Trans. of Z[eitschrift fur] Angew[andte] Physik (West Germany) 1959, v. 11, no. 11, p. 441-443.

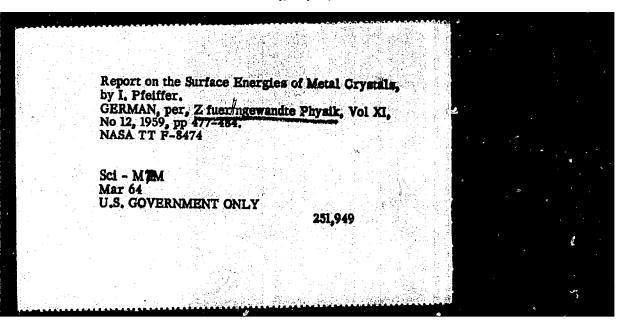
DESCRIPTORS: Thin films, *Vaporization, *Vacuum apparatus, Chemical elements, Processing.

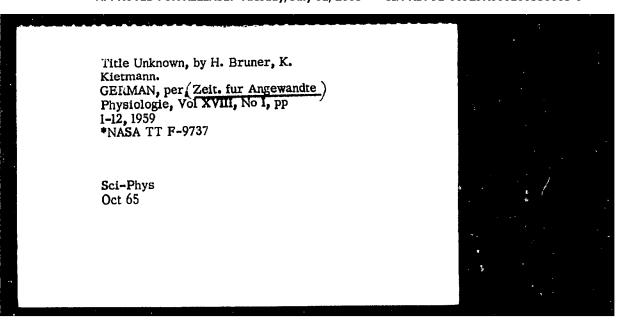
A doping apparatus is described which permits the production of vaporized layers of several components. This doping apparatus consists of a rotor equipped with two or more vaporizers and permits great variational possibilities for the formation of the total layer. (Author)

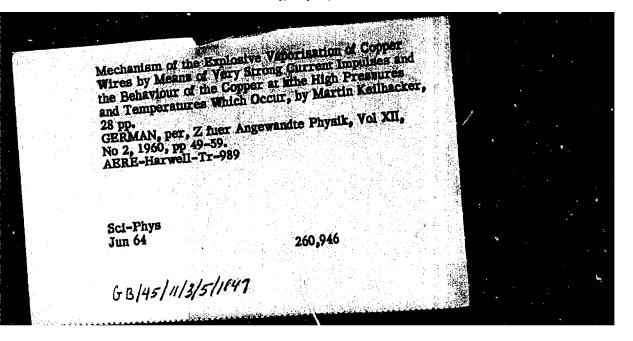
(Metallurgy, TT, v. 7, no. 9)

Office of Technical Services









Optical Pyrometry in Polarized Light,
by W. Pepperhoff.

GERMAN, per, Z Angev Physik, Vol XII, No 4,
1960, pp 168-171.

RAE 939

Sci - Phys /68, 6/4

Sep 61

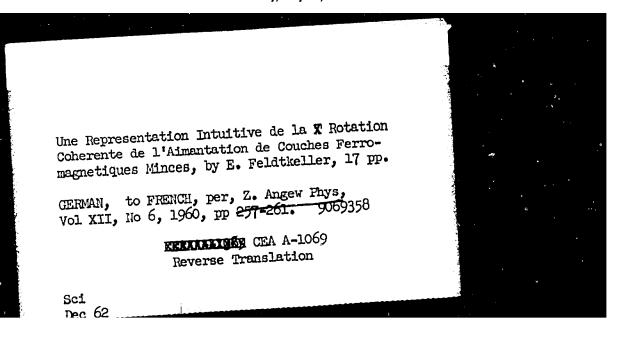
APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA

CIA-RDP91-00929R000100330005-0

Michelitsch, Michael.
WETTING AND ALL.OYING STUDIES ON GERMANUM. [1963] I7p. 7 refs.
Order from SLA \$1.60

Trans. of Zeitschrift fur Angewandte Physik (West Germany) 1960, v. 12, no. 4, p. 180-184.

DESCRIPTORS: *Germanium, Surface-active substances, *Indium, Indium alloys, *Semiconductors, Halides, Antimony, Aluminum alloys, Gallium alloys
A report is given on a simple, readily reproducible wetting process which is suitable for wetting germanium at elevated temperatures with indium and its alloys. It essentially consists in that the oxide films on the starting materials are replaced by halide films and these are then reduced in a hydrogen atmosphere at moderately high temperatures. Pure material surfaces are thus obtained, at least at the moment of contact be-(Physics--Solid State, TT, v. 10, no. 4) (over)



CIA-RDP91-00929R000100330005-0 APPROVED FOR RELEASE: Tuesday, July 01, 2003

Roder, Oskar. LATTICE FORMATION IN EVAPORATED TITANATE LAYERS [1961] [8]p. 4 refs. 62-10095 Order from SLA \$1.10

Trans. of Zeitschrift für Angewandte Physik (West Germany) 1960, v. 12, no. 7, p. 323-324.

DESCRIPTORS: *Barium compounds, *Strontium compounds, *Titanates, Evaporation, Crystals, *Lattices, Temperature, Growth.

The purpose of this paper was to clarify the conditions under which titanates condensed from the vapor phase form a crystal lattice. The titanates were deposited in high vacuo on glass, quartz or mica and later annealed in air up to 1000°C. After annealing the layers were scraped off the substrate and analyzed in powder form by the Debye-Scherrer method. It appeared that for lattice formation temperatures of at least 400°C are necessary. (Author)

62-10095

1. Title: Debye-Scherrer method

1. Roder, O.

(Physics -- Solid State, TT, v. 7, no. 9)

Office of Technical Services

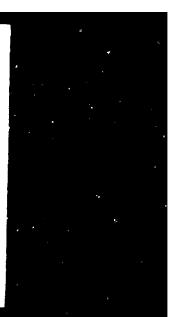
Lattice Constant Measurement P_{λ} :m Broadened X-Ray Reflections, by G. K. Schmidt.

GERMAN, per, Zeitschrift fuer Angewandte Physik, Vol XII, No 8, 1960, pp 347-351.

3B/256/T 1244

Sci- Phys Mar 63

225, 336



Buchmann, Franz, Höfert, Manfred, and Röhler, Rainer.

RAPID RESPONSE MEASUREMENT OF DOSE RATE IN COMMERCIAL X-RAY APPARATUS. [1961] 6p. 4 refs.
Order from SLA \$1.10

O1-18864

Trans. of Z[eitschrift für] Angew[andte] Physlik] (West Germany) 1960, v. 12, no. 8, p. 351-353.

DESCRIPTOR3: Dose rate, Measurement, *X-rays, Scintillation counters, *Radiation instruments.

An apparatus consisting of a chamber, which contains a scintillation liquid and which is connected to a photomultiplier, is suitable for an approximate doserate measurement of x-radiation within the range of 35 to 100 Kv. Inasmuch as the reading is taken with an electron beam oscillograph with a minute response (Nuclear Physica--Instruments, TT, v. 7, no. 1)(pver)

Office of Techalcel Services

The Effect on the Cas Flow of an Electric Arc Burning in a Mozzle, by K. Zuockler,

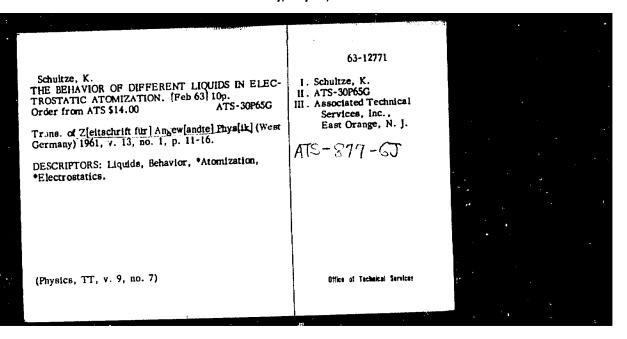
GERMAN, per, Z Angew Phys, Vol XII, No XX 12, 1960, pp 567-575.

RAB 973

200,901

Sci - Phys

Jun 62



R-1018

The Behaviour of Different Liquids During Electrostatic Atomization, by K. Schultze

GERMAN, per, Z. Angew Phys, Vol XIII, No 1, 1961, pp 11-16.

*JPRS/Picatinny Arsenal

Sci - Phys Oct 62

Production of Strong Molecular Beams in High Vecus by Merne of Jets, by Gerhard Becker, 13 pp.

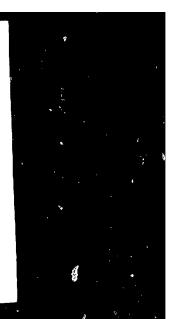
WERMAN, per, Zeitschrift fuer Angewendte Physik, Vol XIII, No 2, 1951, pp 59-64. (9206230)

ABC--Tr-5695

Sci - Phys

Jun 63

834,297



Influence d'un ecroissage et d'un traitement thermique sur les proprietes electriques et magnetiques des alliages Fe-A/, by G. Rassmann, H. Wich.

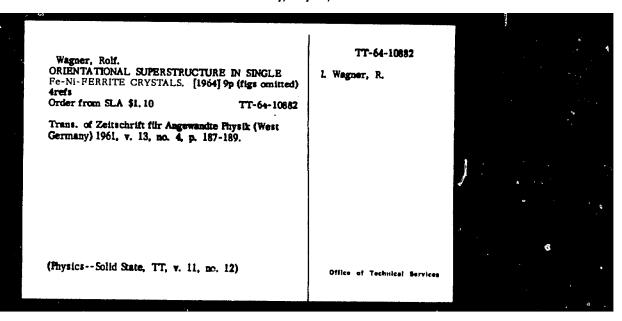
+ FRENCH
GERMAN, per, Z. Angew., Phys., Vol XIII, No 4,
1961, pp 172-174. 9203239

Reverse Translation/CEA

Sci

Apr 63





Ross, Erich and Moser, Erich.

THE TEMPERATURE-DEPENDENCE OF THE INITIAL PERMEABILITY IN HIGHLY PERMEABILE MANGANESE-ZINC-FERRITES. [1961] 8p. (Foo (foomotes 9 figs. omitted).

Order from SLA \$1. 10 62-10325

Trans. of Zeitschrift f[ur] Angew[andte] (West Germany) 1961, v. 13, no. 5, p. 247-250.

DESCRIPTORS: *Manganese compounds, *Spinels, *Ferrites, Permeability, Temperature, Manufacturing methods, Minerals, Zinc.

In highly permeable manganese-zinc ferrites we find frequently, in addition to the maximum of the initial permeability, close to the Curie-temperature, secondary maximum for reasons which are still unknown. These maxima move with increasing zinc-(Chemistry--Physical, TT, v. 7, no. 8) (Over)

The Velocity of Ascent of Gas Bubbles in Liquids of Different Viscosity and Sruface Tension, by Erwin Coester.

GERMAN, per, Zeit fur Angewandte Physik, Vol XIII, No 5, 1961, pp 284-259, 9696503 DDC RSIC 375

Erwin Coreta)

Sci-Phys Nov 65

292,871

Gobrecht, Heinrich, Franke, Karl-Heins and others.
AN ALTERNATING CURRENT: APPARATUS FOR
THE MEASURING OF THE HALL EFFECT AND OF
THE CONDUCTIVITY OF LAYERS OF SEMICONDUCTORS WITH A HIGH OHMIC RESISTANCE.
[1961] 26p. (11 figs. 10 refs. omitted). 2 refs.
Order from SLA \$2.60 62-10761

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1961, v. 13, no. 6, p. 261-268.

DESCRIPTORS: *Alternating current, *Hall effect,
*Measurement, Semiconductors, Conductivity,
Voltage, Resistance, Electrical equipment.

The apparatus described permits the Hall voltages to
be measured on samples having resistances between
several hundred and about twenty thousand ohms. The
smallest voltage which can be measured is 0,5 microvolts. The application of a phase-sensitive rectifier
(Engineering--Electrical, TT, v. 8, no. 2) (over)

On the Possibility of Constant Control of Electron Flows in a Rarefied Atmosphere, by E. Pfender.

GERMAN, per, Zeitschrift fuer Angewandte Physik, Vol 13, 1961, pp 341-348.

NTC-71-15543-20I

Sabban, Klaus.

NON-LINEAR CONTROLLABLE INDUCTANCES MADE
OF THIN MAGNETIC FILMS. [1963] 27p. 3 refs.
Ocder from SLA \$2.60

Trans. of Zelt[schrift für] Angew[andte] Physik (West
Germany) 1961, v. 13, no. 9, p. 420-425.

DESCRIPTORS: *Films, *Ferromagnetic materials,
*Inductance, Coils, Oscillators, Magnetism, Magnetic
properties, Electrical conductance,

The dependence of the inductance of a coil with a magnetizable film on the premagnetization of the film is
calculated. An equivalent circuit is set up for the coil,
consisting of a dissipative parallel oscillating circuit
and an inductance connected in series. The values
(resonance frequency, quality, capacity, conductivity
and inductance) of the parallel oscillating circuit are
functions of the premagnetization. They are repre(Physics--Magnetism, TT, v. 10, no. 11) (over)

On the Form of Compression Shocks in Freely Expanding Gas Jets, by K. Bier.

GERMAN, per, Zeitschrift fuer Angewandte

Physik, Vol 13, 1961, pp 493-500.

NTC-71-15542-01A

AEC M-5196 2477, 9089613

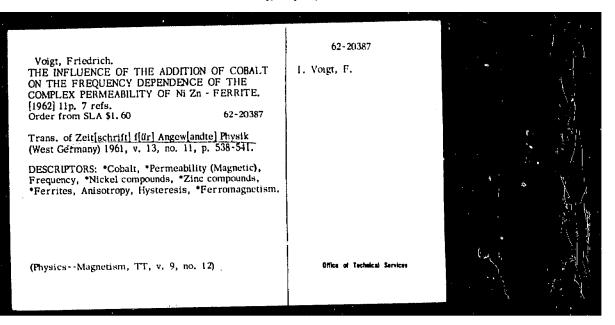
The lagnotic Behaviour of Fo-Al Single Crystels,
by H. Gengnagel.

IERNAM, per, Zeitschrift für Angswandte Physik, Part I,
Vol XIII, Nov 1961, pp 527-534.

BIBI 3143

Sci - East M/M
Apr 363

230,770



Eberhardt, N.
POSSIBLE SOURCES OF ENERGY OF ION OSCIL-LATIONS IN A HIGH AND ULTRAHIGH VACUUM.
[1962] 20p. 18 refs.
Order from SLA \$1.60 62-20372

Trans. of Zeitschrift für Angewandte Physik (West Germany) 1961, v. 13, no. 12, p. 560-565.

DESCRIPTORS: *lons, *lonization, *Plasma oscillations, *Electron tubes, Energy.

Interfering ion plasma oscillations have been observed repeatedly in various amplifier tubes. Two new mechanisms for continuous excitation of these oscillations are indicated. One is based on a phase "sorting" of the particles which oscillate in a potential well with non-linear law of force and repel mutually. There is a similarity to the mechanism of the well-known (Physics--Electronics, TT, v. 10, no. 2) (over)

62-20372
I. Fiberhardt, N.

Biffice of Technical Services

The Magnetic Behaviour of Fe-Al Bingle Crystalu, by H. Gengmagel.

GERMAN, per, Maitschrift für Angewandte Physik,
WEX Part II, Vol XIII, Dec 1961, pp 569-576.

BIBI 3243

Bod - Green M/M Apr 63 230,771

Direct Conversion of Heat Into Electric
Energy by Means of Hot-Cathode Tubes Filled
With Rare Gas, by W. Bloss.
GERMAN, per, Zeitschrift fuer Angewandte Physik,
Vol 14, No 1, 1962, pp 1-9.
NTC-71-15541-10A

Feb 72

Direct Conversion of Heat into Electric Energy by Means of Hot-Cathode Tubes Filled with Rare Gas, by W. Bloss. CERMAN, per, Zeitschrift fuer Angewandte Physik, Vol 14, No 1, 1962, pp 1-9. NTC 71-15541-10A

Mar 72

Seidel, Horst.

A MICROWAVE BRIDGE WITH HETERODYNE RE-CEPTION FOR ELECTRON SPIN RESONANCE MEAS-UREMENTS IN THE X-BAND. [1965, [5]p. 3 refs. Order from SLA \$1.10 63-18929

Trans. of Z[citschrift] f[ur] Angew[andte] Physik (West Germany) 1962, v. 14, no. 1, p. 21-22

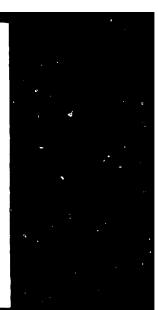
DESC[dIPTORS: *Microwave bridges, *Measuring devices (Electrical and electronic), *Electron spin resonance, Microwaves, Klystrons, Frequency modulation, Design, Measurement, X-band.

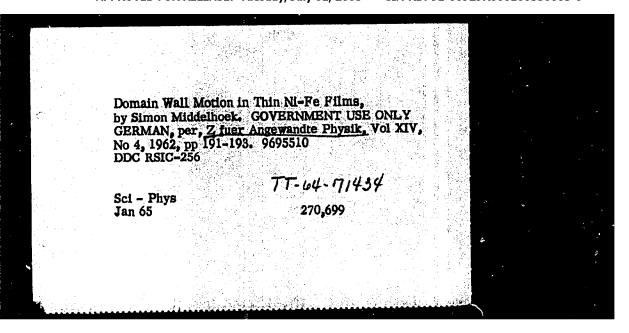
A description is given of a microwave system for recording ESI: signals; a limit of detection of Nmin ** 3 x 10³⁰ AH/G spins is attained with relatively little expense. A heterodyne system with only one klystron is used, the heterodyne frequency being produced by modulation. Modulation of the carrier and frequency stabilization are linked. (Author)

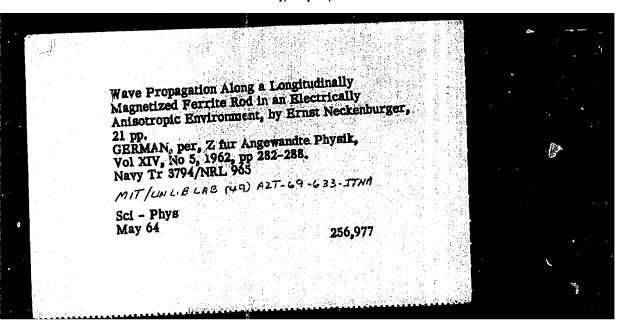
63-18885 Kornetzki, M.
REMANENCE OF IDEAL MAGNETIZATION (Die 1. Title: Remanence Remanenz der Idealen Magnetisierung). [1963] 14p. I. Kornetzki, M. 15 refs. 63-18885 Order from SLA \$1.60 Trans. of Zeitschrift flur Angewlandte Physik (West Germany) 1962, v. 14, no. 3, p. 53-56. DESCRIPTORS: Magnetism, *Magnetic fields, *Inductance; Ferromagnetic materials, Magnetic properties. It is deduced from the Preissch diagram that at low field strength, the difference between ideal magnetization and its remanence is equal, according to the occupancy function present, either to the magnetization on the new curve or to the reversible magnetization. That is, the relative remanence of ideal magnetization should be greater, the greater the ratio of initial slope of the ideal magnetization curve to initial permeability Office of Technical Services (Physics--Magnetism, TT, v. 10, no. 11)

The Calculation of Maximum Impurities in Metallic Vapor Deposit by Residual Vacuum Gases, by H. Gawehn GERMAN, per, Zeitschrift fuer Angewandte Physik, Vol 14, 1962, pp 126-129 NTC 71-15272-20L

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Schwabe, Gerhard.

MEASUREMENT OF SMALL DIFFUSION DEPTHS IN SEMICONDUCTOR MATERIALS. [1963] 8p. (refs. omitted).

Order from SLA \$1.10 63-16546

Trans. of Zeitschrift für Angewandte Physik (West Germany) 1962 [4.14] no. 5, p. 297-299.

DESCRIFTORS: *Semiconductors, Materials, Diffusion, *Crystals, Measurement, Solid State physics, Germanium.

The accuracy in the measurement of small diffusion depths in semiconductor materials can be appreciably heightened by a special grinding technique elaborated in detail. The method is simple and a few examples are given. Furthermore, it is shown that the necessary marking of the diffusion boundary can be applied also to n⁺ -n junctions by means of a galvanic copper precipitate. (Author)

63-16546 I. Schwabe, G.

(Physics--Solid State, TT, /, 10, so. 5)



APPROVED FOR RELEASE: Tuesday, July 01, 2003

CIA-RDP91-00929R000100330005-0

The Thermal Buission of Metals Into the Half Space, by H. Klein, COVERNMENT USE OHLY GERMAN, pur, Zeitschrift für Angewandte Physik, Vol XIV, No 6, 1962, pp 358-362. P200175267 RSIC-666

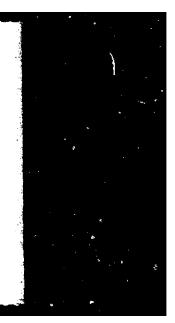
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Measurement of Very Short Carrier Lifetimes in Semiconductors, by P. Bauerlein, 6 pp.
GERMAN, per, Zeit fur Ang Phys, Vol XIV, No 7, 1962, pp 408-412. 9227103
ACSIL/64/409

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Metzdorf, Werner.
PHENOMENA DURING SEMI-STATIONARY MAGNET-IZING OF THIN LAYERS. [1963] [46]p. 23 refs. Order from SLA \$4.60 63-18088

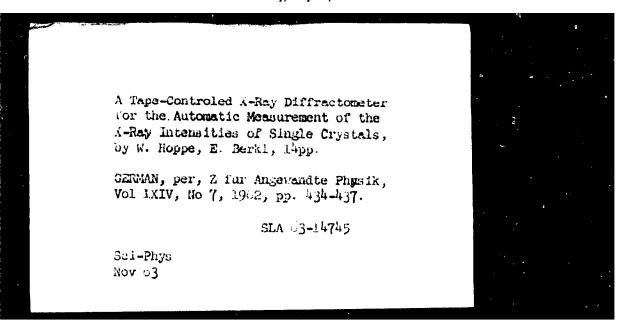
Trans. of Zeitschrift für Angewandte Physik (West Germany) 1962, v. 14, no. 7 [p. 412-424].

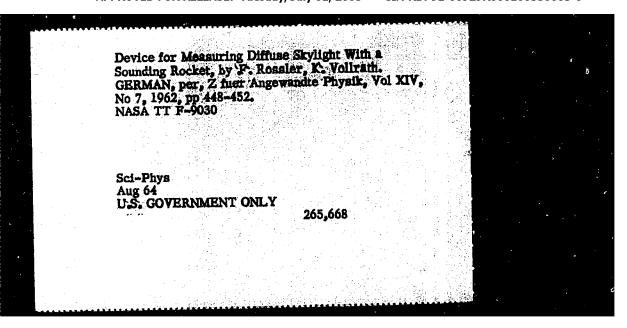
DESCRIPTORS: *Magnetic properties, *Magneto-optic effect, *Alloys, Iron alloy, Nickel alloy, Anisotropy, Magnetism, Perromagnetic materials, *Magnetic materials.

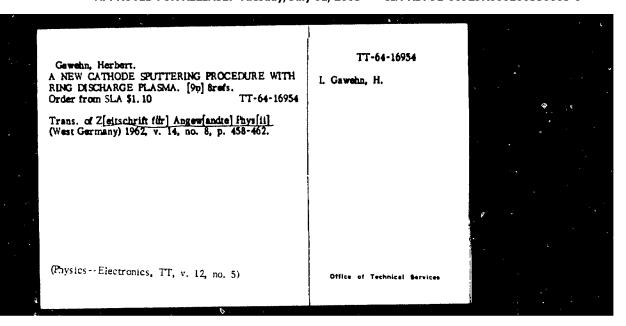
The report shows which kind of magnetizing processes occur in the area of the total layer under the influence of slowly increased fields of arbitrary direction and what coercitive force they possess and what factors determine the various processes. (Author)

(Physics--Magnetism, TT, v. 10, no. 9)

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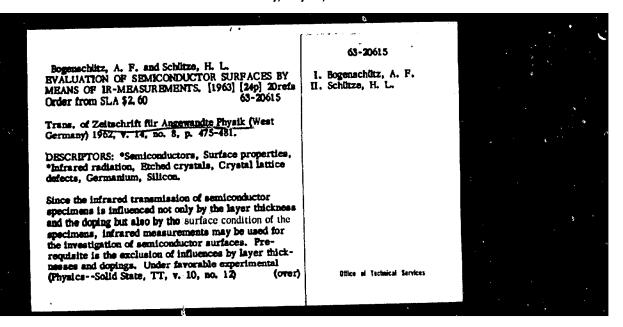


Bogenschütz, A. F., Bergmann, F., and Jentzsch, J.
AN OPTICAL METHOD OF MEASURING THE THICKNESS OF THIN FILMS. [1963] [22p] 7 refs
Order from SLA \$2.60 TT-63-20580

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1957, V. T.4, hö. 8, p.-469-475.
(Abstract available)

DESCRIPTORS: Semiconducting films, Oxides, Films,
Reflection, Infrared radiation, Thickness, Silicon,
Germantum, Tantalum.

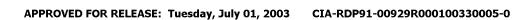
A method is described for the nondestructive measurement of the thickness of thin films transmitting infrared light. The process, based on measurements of reflection power and the transmission of infrared light,
can be used for film thicknesses from 0.02 to 10 pm.
Experimentally, the transmission capacity of exide(Physics-Solid State, TT, v. 11, no. 1) (ever)

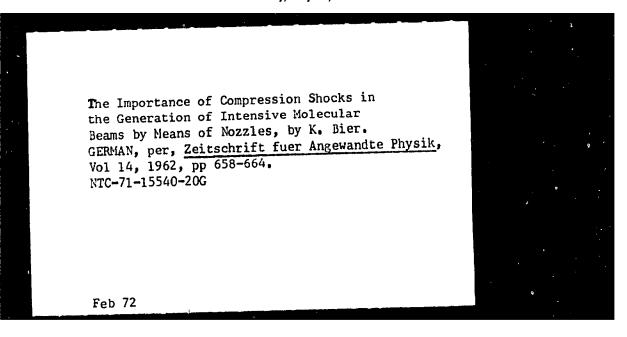


Studies of Lattice Defects in Neutron-Irradiated Lithium Fluoride, by Hans Peisl, 29 pp. GERMAN, per, Z. Angew, Phys. Vol 14, 1962, pp 529-536 AEC-UCRL-tr-10251 P911253468-V

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Krawinkel, G. H.
STUDY OF THE FLOW OF A FEW LIQUID POLAR
DIELECTRICS IN AN INHOMOGENEOUS ELECTRIC
FIELD, [Jaz 64] 18p
Order from ATS \$24.65

ATS-03Q74G

Trans. of Z[eitschrift für] Angew[andte] Phys[ik] (West Germany) 1962, v. 14, no. 11, p. 681-692.

DESCRIPTORS: Electric fields, *Dielectrics, Polarization.

175 12 12 6 G aug 67

(Physics -- Electricity, TT, v. 11, no. 9)

TT-64-12419

- III. Associated Technical

I. Krawinhel, G. H. II. ATS-0SQ74G Services, Inc., East Orange, N. J. Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 01, 2003

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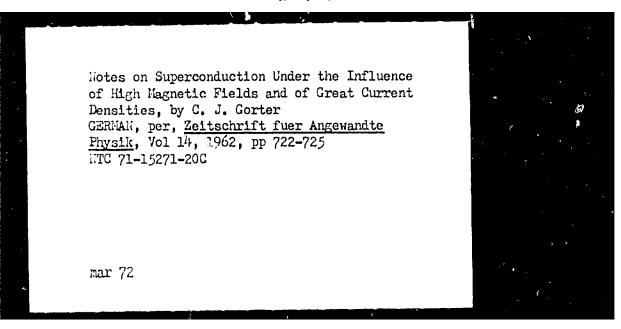
Dietrich, Isolde and Kerps, Dietrich.

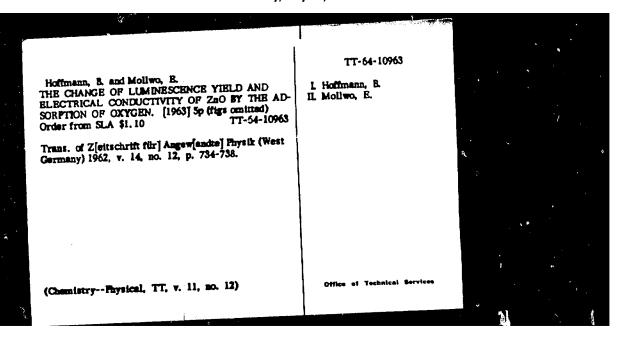
Mcasurement of Switching Time to Determine the Critical Current for Thinsuperconductive Layers, [1963] 13p 7refs
Order from SLA \$1.60 TT-64-14631

Trans. of [Zeitschrift für Angewandte Physik] (West Germany) [7962, v. 14, no. 12, p. 709-713. (Abstract available)

DESCRIPTORS: *Cryogenics, *Superconductors, Thickness, Electrical conductance, Transition temperature, Electric currents.

The current induced transition from the superconductive to the normal conductive condition is caused by wall movement at the moment a normally conductive nucleus appears. For thin layers of simple geometry, an equation may be derived from the heat balance equation (Physics--Electricity, TT, v. 11, no. 11) (over)

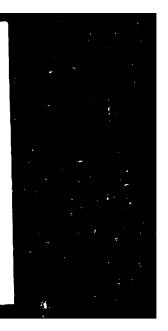


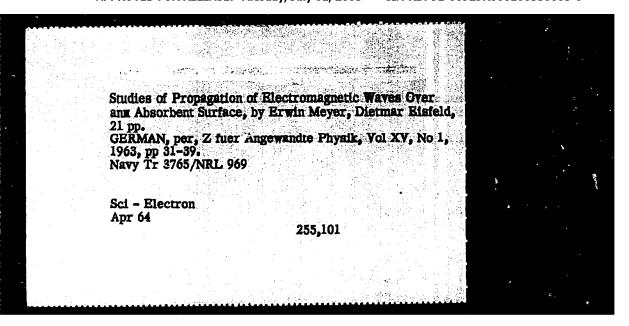


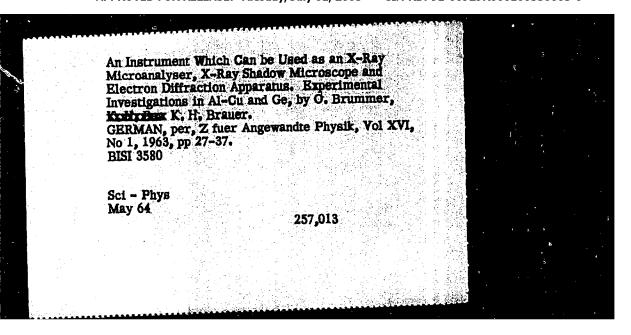
The Complex Resistivity of BaTiO₃ "Cold & Conductors" as Confirmation of the Barrier-Layer Model, by W. Heywang, 19pp GERMAN, per, Zeitschrift fur Angewandte Physik, Vol 16, 1963, No 1, pp 1-5 SIA TT-64-16837

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The Angular Dependence of a Molecular Beam
Produced by a Knudsen Cell, by V. Ruth.
GERMAN, per, Z fur Angewandte Physik,
Vol XVI, 1963, pp 53-55. 9232001
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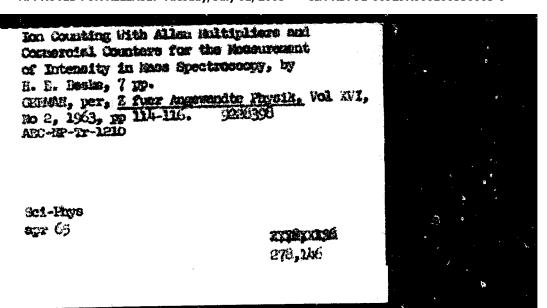
Simple Arrangement for the Analysis of Geometric Data of Beams of Charged Particles, by M. Fink, et al.
GERMAN, per, Zeitschrift für Angewandte Physik, Vol 15, No 2, 1963, pp 112-114.
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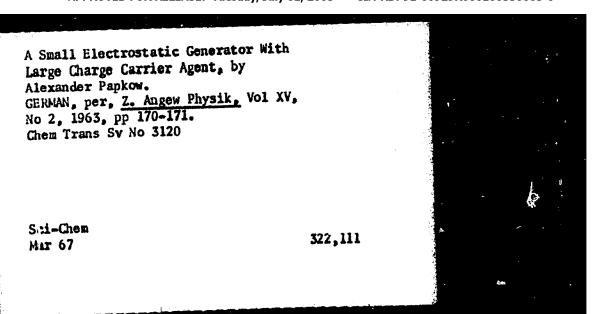
77TC 72-10274-20H

GOVERNMENT USE ONLY

Sci-Phys Sept 67

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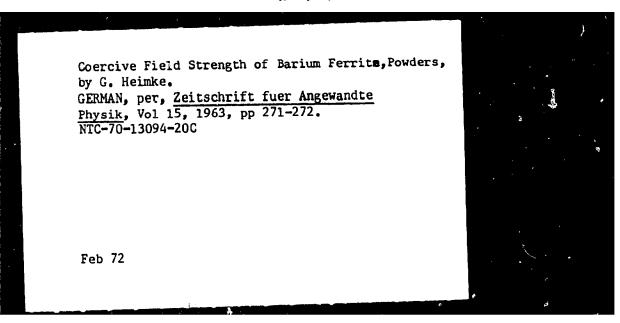


The Possibilities of Using the Kerr-Technik' for the Observation of Magnetic Regions, by J. Kranz, A. Hubert.

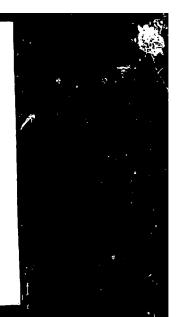
GERMAN, per, Z fuer Angewandte Physik, Vol XV, No 3, 1963, pp 220-232.

*SLA - A-117

Sci - Phys Jun 63



Spontaneous Temporal Fluctuations in the Magnetization of a Ferromagnetic Material, by Heinz Bittel, Hans Lutgemeier, 10 pp.
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GERMAN, per, Zeitschrift für Angewandte Physik, Vol 15, No 6, 1963, pp 476-480.
ARM/FSTC/HT-23-1355-71



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Tischer, Manfred.

THE MECHANISM OF EMISSION OF THE BN-CATHODE. [1963] 39p 25refs
Order from SLA \$3.60

Trans. of Zeltachrift für Angewandte Physik (West Germany) 1963, v. 15, no. 6, p. 509-518. (Abstract available)

DESCRIPTORS: *Electron tube parts, *Cathodes (Electron tube), *Oxide cathodes, *Barlum alloys, *Nickel alloys, Emissivity, Diffusion, Theory.

It is shown that the BN-cathode is an oxide cathode with recuperative properties. Studies shored that the mechanism of the BN-cathode corresponds to that of the genuine dispersion type (L cathode). A calculation is introduced to explain the mechanism of emission of the BN-cathode, based on the depletion layer theory of (Physics--Electronics, TT, v. 11, no. 11)

Office of Technical Services

Hamisch, H. and Binkele, L.

HIGH RESOLUTION FIXATION OF ELECTRON-AND
ION-OPTICAL PICTURES BY CROSSLINKING ORGANIC SUBSTANCES. 11963] 12p 12refs
Order from SLA \$1.60

Trans. of Zeuschr[ift.fiir] Angewlandte] Physik
(West Germany) 1963, v. 16, no. 3, p. 145-150,
(Abstract available)

DESCRIPTORS: *Photographic film, *Plastic films,
*Fatty acids, Glycerols, Esters, Chemical bonds,
*Electron optics, *Ion heams, Photographic images,
Resolution.

The change in solubility of a lacquer due to electron- or
ion-bonibardment was utilized to record the intensity
distribution in the focal plane of an electron-optical or
ton-optical apparatus. The lacquer relief obtained in
(Materials--Photographic, TT, v. 11, no. 11) (over)